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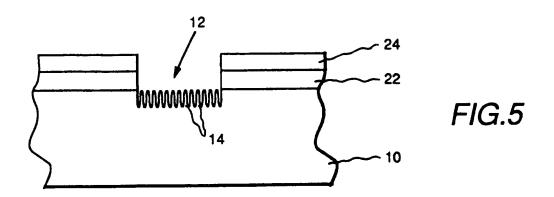
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- (54) Producing metal patterns on a substrate.
- Conductive patterns may be formed on the surface of thermally inefficient substrates by depositing a uniform layer of metal thereover whose upper surface is substantially UV absorbing followed by laser ablation of the deposited metal to leave the deposited metal only in the desired metal pattern. Thermally efficient substrates (10) may be rendered thermally inefficient by the deposition of a thermally inefficient material thereon. That thermally inefficient material may be either electrically insulating or a metal. A two layer metallization comprising a first, thermally inefficient reactive metal (22) and a second UV absorbing metal (24) is preferred. When disposed on a thermally inefficient substrate, this two layer metallization ablates reactively as the two layers burn off together. This laser ablation process substantially roughens the surface of polymer dielectrics and may be used to repair open traces in printed circuit structures.

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EP 0 480 703 /

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EUROPEAN SEARCH REPORT

Application Number

EP 91 30 9278

	DUCUMENTS CONSI	DERED TO BE RELEVAN	T	
Category	Citation of document with in of relevant par		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL5)
A	US-A-4 826 785 (INMOS) * abstract * * column 3, line 44 - c	olumn 5, line 11 *	1	H01L21/48
A ,	EDN ELECTRICAL DESIGN N vol. 17, no. 13, 1 July MASSACHUSETTS US page 14; 'Circuits Form with Laser "Machining" * the whole document *	1972, NEWTON, ed on Ceranjc Substrates	1,5,7,16	
A	US-A-4 786 358 (SEMICON * the whole document *	DUCTOR ENERGY LABORATORY)	7,15,16	
A	D. BAUERLE: "Chemical Pr Springerverlag, 1986, ISB pp. 162-170 *p169-170, "8.1 Metals"	N 3-540-17 147-9,	8-12	
A	EP-A-0 180 101 (IBM) * abstract *	<u>.</u>	4,14	TECHNICAL FIELDS SEARCHED (Inc. Cl.5)
A	IBM TECHNICAL DISCLOSUR vol. 8, no. 12, May 196 page 1733; H.L. CASWELL: 'Electro' Interconnections'			HO1L
	The present search report has b	een drawn up for all claims	-	
	Place of sourch	Date of completion of the nearth		Examiner
	THE HAGUE	11 MARCH 1992	PRO	HASKA G.A.
A:tec O:no	CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document of the same category tochnological background non-writes discourse a: member of the same patent family, corresponding thermological background comment of the same patent family, corresponding document document			